RAW SEQUENCE LISTING   DATE: 10/29/2001
PATENT APPLICATION: US/09/545,199D   TIME: 17:57:09

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\10292001\I545199D.raw

```
282 Gln Ala Ser Ile Thr Asn Glu Leu Asn Glu Ile Val Ala Gly Ala Ala
283         275                 280                 285
285 gca att taacaaatag aggatcggta atggcaactg gaaaaattgt acaaatcatc   1280
286 Ala Ile
288 ggtgcggtta ttgacgttga attcccacaa gatgcagtac caaaagtata tgatgcctta  1340
290 aatgttgaaa caggtttagt acttgaagtt caacaacaat taggtggtgg tgtagttcgc  1400
292 tgtatcgcaa tgggatcatc tgatggatta aaacgcggtt taagcgtaac aaatacgaat  1460
294 aacccaattt ctgttccagt gggaacgaaa acattgggtc gtatcatgaa cgtattgggt  1520
296 gaaccaatcg atgagcaagg tgaaatcggt gcagaagaga attggtctat tcaccgtgcg  1580
298 ccaccaagtt atgaagaaca atctaacagt actgaacttt tagaaacggg aattaaagtt  1640
300 atcgacttag tttgtccgtt tgcgaaaggg ggtaaagtag gtttattcgg tggtgcgggt  1700
302 gtcggtaaaa ccgtcaatat gatggaatta atccgtaaca tcgcaattga gcactcaggt  1760
304 tactctgtct ttgcgggggt aggtgagcgt acgcgtgaag gtaacgactt ctatcatgag  1820
306 atgaaagact ctaacgtatt agataaagtg tctcttgttt atggtcaaat gaacgagcca  1880
308 ccaggtaacc gtttacgtgt ggcattaaca ggcttaacta tggcggaaaa attccgtgat  1940
310 gaaggtcgtg atgtcttatt cttcgttgat aa                                1972
313 <210> SEQ ID NO: 4
314 <211> LENGTH: 289
315 <212> TYPE: PRT
316 <213> ORGANISM: Pasteurella multocida
318 <400> SEQUENCE: 4
319 Met Ala Gly Ala Lys Glu Ile Arg Thr Lys Ile Ala Ser Val Lys Ser
320   1               5                   10                  15
322 Thr Gln Lys Ile Thr Lys Ala Met Glu Met Val Ala Ala Ser Lys Met
323             20                  25                  30
325 Arg Lys Thr Gln Glu Arg Met Ser Ser Ser Arg Pro Tyr Ser Glu Thr
326             35                  40                  45
328 Ile Arg Asn Val Ile Ser His Val Ser Lys Ala Thr Ile Gly Tyr Lys
329         50                  55                  60
331 His Pro Phe Leu Val Asp Arg Glu Val Lys Lys Val Gly Met Ile Val
332   65                  70                  75                  80
334 Val Ser Thr Asp Arg Gly Leu Cys Gly Gly Leu Asn Val Asn Leu Phe
335             85                  90                  95
337 Lys Thr Val Leu Asn Glu Met Lys Glu Trp Lys Glu Lys Asp Val Ser
338             100                 105                 110
340 Val Gln Leu Ser Leu Ile Gly Ser Lys Ser Ile Asn Phe Phe Gln Ser
341             115                 120                 125
343 Leu Gly Ile Lys Ile Leu Thr Gln Asp Ser Gly Ile Gly Asp Thr Pro
344         130                 135                 140
346 Ser Val Glu Gln Leu Ile Gly Ser Val Asn Ser Met Ile Asp Ala Tyr
347 145                 150                 155                 160
349 Lys Lys Gly Glu Val Asp Val Val Tyr Leu Val Tyr Asn Lys Phe Ile
350             165                 170                 175
352 Asn Thr Met Ser Gln Lys Pro Val Leu Glu Lys Leu Ile Pro Leu Pro
353             180                 185                 190
355 Glu Leu Asp Asn Asp Glu Leu Gly Glu Arg Lys Gln Val Trp Asp Tyr
356             195                 200                 205
358 Ile Tyr Glu Pro Asp Ala Lys Val Leu Leu Asp Asn Leu Leu Val Arg
359         210                 215                 220
```

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.